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Approved For Release 2003/12/04 : CIA-RDP78B05171A000100010128-7

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29 July 1969

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MEMORANDUM FOR THE RECORD

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SUBJECT: [] Trip Report for the Period 7-10 July 1969. The trip members included: []

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1. Monday afternoon was spent in discussion at [] produced the test data we had previously supplied them and the bulk of the conversation that day concerned [] and [] he was primarily interested in the mechanics of setting up the film: i.e. where we enter the fiducials, where to zero the banks, the significance of the translation constant, etc. It came out that he plans to relate the two fiducials to flight direction. We could think of no reason why this could not be done. [] he wanted to know how we referenced time on the film. We explained payload clock time, that time on and off was listed in the MCD and that we were able to read the precise time at reference PCT. We will have the capability of measuring up to three separate areas, reading out the time track over each area. The central computer does not have this capability as of yet, but this can be worked out. This will be an improvement over the use of average VF where large distances in the long track axis are involved. It will not be necessary to retype parameters in order to mensurate in succeeding areas. There is the constraint that only up to thirty (30) time tics can be read out due to core space limitations. If the twenty cycle clock (every twenty-fifth bit) is read, the time limit will be one and one-half seconds. It came as a surprise to [] that [] emulsion up does not represent true ground view. The instrument does not contain mirrors to rectify this situation, nor like our [] is it possible to change signs. Apparently, however, NPIC was aware of this situation early in the game and does not plan to use [] at any rate. Up to six recall points can be chosen and marked on each frame before placement on the instrument. This is a convenience to enable the operator to move the stages rapidly to these points by merely pushing a button. We asked that one recall point be the reference PCT point so that micron drift could be checked after completion of mensuration.

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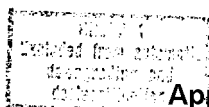
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TOP SECRET



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2. Tuesday and Wednesday were spent in discussion of the computer program with []. He produced a flow chart and showed what routines were completed, which were written in FORTRAN and machine language, and then gave a run down of how the program worked, explaining each routine. He spoke and answered questions without referral to notes or worksheets and made a good impression on all of us. [] interrogated him in detail. Apparently there are some interface problems between the [] 494 and the 519 which will have to be ironed out. [] is cognizant of these. Later we went back to the instrument area and watched [] load the program (that which he had completed from Exec I). [] showed us the instrument. He explained the operation of the lasers and interferometers, the instrument panel, etc. Although the air bearing system is operable, the technician was not available and a demonstration of stage movement was not possible. The air conditioning unit was installed and working. At this time, program and mechanical testing of the instrument seems to be in a state of suspension waiting upon delivery of the optical system from [].

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3. [] will be needing a list of what units our input parameters are in. There is no hurry however. He also asked for test data from frame photography. The preparation of an operator's manual (push button type) is not under way and will not be delivered to us until the instrument is in-house. No provision has been made for formal operator training at [] per se. There was no time budgeted for this and they will be busy testing. They did express a desire that a few men be sent to more or less look over their shoulder and learn the operational and maintenance aspects of the machine by observation and questioning. Three pieces of information were brought back: an operator's manual (the mathematics), a program manual, and the flow chart.

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4. From the information gathering standpoint, the trip was well worthwhile. Besides the briefings, meeting the people and seeing the instrument gave a good handle on what the project entails. At this point there are no readily detectable errors in the math model or program. However, final evaluation must await testing of the fictitious imagery and finally real imagery in the operational environment.

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IEG/PHD

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